ENTERED

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     RAW SEQUENCE LISTING            DATE: 05/29/2002
     PATENT APPLICATION:  US/09/548,409B    TIME: 16:29:36

     Input Set : A:\17282CIPSEQLIST.TXT
     Output Set: N:\CRF3\05292002\I548409B.raw

 4 <110> APPLICANT: Steward,Lance E.
 5        Aoki, K. Roger
 6        Sachs, George
 9 <120> TITLE OF INVENTION: Methods and Compositions for the
10        Treament of Pancreatitis
12 <130> FILE REFERENCE: 17282CIP(AP)
14 <140> CURRENT APPLICATION NUMBER: 09/548,409B
15 <141> CURRENT FILING DATE: 2000-04-13
17 <150> PRIOR APPLICATION NUMBER: US 09/288,326
18 <151> PRIOR FILING DATE: 1999-04-08
20 <160> NUMBER OF SEQ ID NOS: 12
22 <170> SOFTWARE: FastSEQ for Windows Version 3.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 129
26 <212> TYPE: PRT
27 <213> ORGANISM: Homo sapiens
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30   Ser Glu Gln Glu Asn Cys Glu Leu Ile Ser Thr Ile Asn Gly Met Asn
31   1               5                   10                  15
32   Ser Gly Val Cys Leu Cys Val Leu Met Ala Val Leu Ala Ala Gly Ala
33               20                  25                  30
34   Leu Thr Gln Pro Val Pro Pro Ala Asp Pro Ala Gly Ser Gly Leu Gln
35           35                  40                  45
36   Arg Ala Glu Glu Ala Pro Arg Arg Gln Leu Arg Val Ser Gln Arg Thr
37       50                  55                  60
38   Asp Gly Glu Ser Arg Ala His Leu Gly Ala Leu Leu Ala Arg Tyr Ile
39   65                  70                  75                  80
40   Gln Gln Ala Arg Lys Ala Pro Ser Gly Arg Met Ser Ile Val Lys Asn
41               85                  90                  95
42   Leu Gln Asn Leu Asp Pro Ser His Arg Ile Ser Asp Arg Asp Tyr Met
43               100                 105                 110
44   Gly Trp Met Asp Phe Gly Arg Arg Ser Ala Glu Glu Tyr Glu Tyr Pro
45           115                 120                 125
46   Ser
49 <210> SEQ ID NO: 2
50 <211> LENGTH: 58
51 <212> TYPE: PRT
52 <213> ORGANISM: Homo sapiens
54 <400> SEQUENCE: 2
55   Val Ser Gln Arg Thr Asp Gly Glu Ser Arg Ala His Leu Gly Ala Leu
56   1               5                   10                  15
57   Leu Ala Arg Tyr Ile Gln Gln Ala Arg Lys Ala Pro Ser Gly Arg Met
58               20                  25                  30
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```
59   Ser Ile Val Lys Asn Leu Gln Asn Leu Asp Pro Ser His Arg Ile Ser
60           35                  40                  45
61   Asp Arg Asp Tyr Met Gly Trp Met Asp Phe
62        50                  55
64  <210> SEQ ID NO: 3
65  <211> LENGTH: 39
66  <212> TYPE: PRT
67  <213> ORGANISM: Homo sapiens
69  <400> SEQUENCE: 3
70   Tyr Ile Gln Gln Ala Arg Lys Ala Pro Ser Gly Arg Met Ser Ile Val
71   1               5                  10                  15
72   Lys Asn Leu Gln Asn Leu Asp Pro Ser His Arg Ile Ser Asp Arg Asp
73           20                  25                  30
74   Tyr Met Gly Trp Met Asp Phe
75           35
77  <210> SEQ ID NO: 4
78  <211> LENGTH: 33
79  <212> TYPE: PRT
80  <213> ORGANISM: Homo sapiens
82  <400> SEQUENCE: 4
83   Lys Ala Pro Ser Gly Arg Met Ser Ile Val Lys Asn Leu Gln Asn Leu
84   1               5                  10                  15
85   Asp Pro Ser His Arg Ile Ser Asp Arg Asp Tyr Met Gly Trp Met Asp
86           20                  25                  30
87   Phe
90  <210> SEQ ID NO: 5
91  <211> LENGTH: 12
92  <212> TYPE: PRT
93  <213> ORGANISM: Homo sapiens
95  <400> SEQUENCE: 5
96   Ile Ser Asp Arg Asp Tyr Met Gly Trp Met Asp Phe
97   1               5                  10
99  <210> SEQ ID NO: 6
100 <211> LENGTH: 9
101 <212> TYPE: PRT
102 <213> ORGANISM: Homo sapiens
104 <400> SEQUENCE: 6
105  Arg Asp Tyr Met Gly Trp Met Asp Phe
106  1               5
108 <210> SEQ ID NO: 7
109 <211> LENGTH: ˙448
110 <212> TYPE: PRT
111 <213> ORGANISM: Clostridium botulinum
113 <400> SEQUENCE: 7
114  Met Pro Phe Val Asn Lys Gln Phe Asn Tyr Lys Asp Pro Val Asn Gly
115  1               5                  10                  15
116  Val Asp Ile Ala Tyr Ile Lys Ile Pro Asn Ala Gly Gln Met Gln Pro
117          20                  25                  30
118  Val Lys Ala Phe Lys Ile His Asn Lys Ile Trp Val Ile Pro Glu Arg
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RAW SEQUENCE LISTING   ·:   DATE: 05/29/2002
PATENT APPLICATION: 'US/09/548,409B   TIME: 16:29:36

Input Set : A:\17282CIPSEQLIST.TXT
Output Set: N:\CRF3\05292002\I548409B.raw

```
119           35              40              45
120     Asp Thr Phe Thr Asn Pro Glu Glu Gly Asp Leu Asn Pro Pro Pro Glu
121         50              55              60
122     Ala Lys Gln Val Pro Val Ser Tyr Tyr Asp Ser Thr Tyr Leu Ser Thr
123     65              70              75              80
124     Asp Asn Glu Lys Asp Asn Tyr Leu Lys Gly Val Thr Lys Leu Phe Glu
125             85              90              95
126     Arg Ile Tyr Ser Thr Asp Leu Gly Arg Met Leu Leu Thr Ser Ile Val
127             100             105             110
128     Arg Gly Ile Pro Phe Trp Gly Gly Ser Thr Ile Asp Thr Glu Leu Lys
129         115             120             125
130     Val Ile Asp Thr Asn Cys Ile Asn Val Ile Gln Pro Asp Gly Ser Tyr
131         130             135             140
132     Arg Ser Glu Glu Leu Asn Leu Val Ile Ile Gly Pro Ser Ala Asp Ile
133     145             150             155             160
134     Ile Gln Phe Glu Cys Lys Ser Phe Gly His Glu Val Leu Asn Leu Thr
135             165             170             175
136     Arg Asn Gly Tyr Gly Ser Thr Gln Tyr Ile Arg Phe Ser Pro Asp Phe
137             180             185             190
138     Thr Phe Gly Phe Glu Glu Ser Leu Glu Val Asp Thr Asn Pro Leu Leu
139             195             200             205
140     Gly Ala Gly Lys Phe Ala Thr Asp Pro Ala Val Thr Leu Ala His Glu
141         210             215             220
142     Leu Ile His Ala Gly His Arg Leu Tyr Gly Ile Ala Ile Asn Pro Asn
143     225             230             235             240
144     Arg Val Phe Lys Val Asn Thr Asn Ala Tyr Tyr Glu Met Ser Gly Leu
145             245             250             255
146     Glu Val Ser Phe Glu Glu Leu Arg Thr Phe Gly Gly His Asp Ala Lys
147             260             265             270
148     Phe Ile Asp Ser Leu Gln Glu Asn Glu Phe Arg Leu Tyr Tyr Tyr Asn
149         275             280             285
150     Lys Phe Lys Asp Ile Ala Ser Thr Leu Asn Lys Ala Lys Ser Ile Val
151         290             295             300
152     Gly Thr Thr Ala Ser Leu Gln Tyr Met Lys Asn Val Phe Lys Glu Lys
153     305             310             315             320
154     Tyr Leu Leu Ser Glu Asp Thr Ser Gly Lys Phe Ser Val Asp Lys Leu
155             325             330             335
156     Lys Phe Asp Lys Leu Tyr Lys Met Leu Thr Glu Ile Tyr Thr Glu Asp
157             340             345             350
158     Asn Phe Val Lys Phe Phe Lys Val Leu Asn Arg Lys Thr Tyr Leu Asn
159             355             360             365
160     Phe Asp Lys Ala Val Phe Lys Ile Asn Ile Val Pro Lys Val Asn Tyr
161         370             375             380
162     Thr Ile Tyr Asp Gly Phe Asn Leu Arg Asn Thr Asn Leu Ala Ala Asn
163     385             390             395             400
164     Phe Asn Gly Gln Asn Thr Glu Ile Asn Asn Met Asn Phe Thr Lys Leu
165             405             410             415
166     Lys Asn Phe Thr Gly Leu Phe Glu Phe Tyr Lys Leu Leu Cys Val Arg
167             420             425             430
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RAW SEQUENCE LISTING   DATE: 05/29/2002
PATENT APPLICATION: US/09/548,409B   TIME: 16:29:36

Input Set : A:\17282CIPSEQLIST.TXT
Output Set: N:\CRF3\05292002\I548409B.raw

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168  Gly Ile Ile Thr Ser Lys Thr Lys Ser Leu Asp Lys Gly Tyr Asn Lys
169          435             440             445
171 <210> SEQ ID NO: 8
172 <211> LENGTH: 423
173 <212> TYPE: PRT
174 <213> ORGANISM: Clostridium botulinum
176 <400> SEQUENCE: 8
177  Ala Leu Asn Asp Leu Cys Ile Lys Val Asn Asn Trp Asp Leu Phe Phe
178   1               5              10              15
179  Ser Pro Ser Glu Asp Asn Phe Thr Asn Asp Leu Asn Lys Gly Glu Glu
180          20              25              30
181  Ile Thr Ser Asp Thr Asn Ile Glu Ala Ala Glu Glu Asn Ile Ser Leu
182          35              40              45
183  Asp Leu Ile Gln Gln Tyr Tyr Leu Thr Phe Asn Phe Asp Asn Glu Pro
184       50              55              60
185  Glu Asn Ile Ser Ile Glu Asn Leu Ser Ser Asp Ile Ile Gly Gln Leu
186  65              70              75              80
187  Glu Leu Met Pro Asn Ile Glu Arg Phe Pro Asn Gly Lys Lys Tyr Glu
188              85              90              95
189  Leu Asp Lys Tyr Thr Met Phe His Tyr Leu Arg Ala Gln Glu Phe Glu
190          100             105             110
191  His Gly Lys Ser Arg Ile Ala Leu Thr Asn Ser Val Asn Glu Ala Leu
192          115             120             125
193  Leu Asn Pro Ser Arg Val Tyr Thr Phe Phe Ser Ser Asp Tyr Val Lys
194       130             135             140
195  Lys Val Asn Lys Ala Thr Glu Ala Ala Met Phe Leu Gly Trp Val Glu
196  145             150             155             160
197  Gln Leu Val Tyr Asp Phe Thr Asp Glu Thr Ser Glu Val Ser Thr Thr
198              165             170             175
199  Asp Lys Ile Ala Asp Ile Thr Ile Ile Ile Pro Tyr Ile Gly Pro Ala
200          180             185             190
201  Leu Asn Ile Gly Asn Met Leu Tyr Lys Asp Asp Phe Val Gly Ala Leu
202          195             200             205
203  Ile Phe Ser Gly Ala Val Ile Leu Leu Glu Phe Ile Pro Glu Ile Ala
204       210             215             220
205  Ile Pro Val Leu Gly Thr Phe Ala Leu Val Ser Tyr Ile Ala Asn Lys
206  225             230             235             240
207  Val Leu Thr Val Gln Thr Ile Asp Asn Ala Leu Ser Lys Arg Asn Glu
208          245             250             255
209  Lys Trp Asp Glu Val Tyr Lys Tyr Ile Val Thr Asn Trp Leu Ala Lys
210          260             265             270
211  Val Asn Thr Gln Ile Asp Leu Ile Arg Lys Lys Met Lys Glu Ala Leu
212          275             280             285
213  Glu Asn Gln Ala Glu Ala Thr Lys Ala Ile Ile Asn Tyr Gln Tyr Asn
214       290             295             300
215  Gln Tyr Thr Glu Glu Glu Lys Asn Asn Ile Asn Phe Asn Ile Asp Asp
216  305             310             315             320
217  Leu Ser Ser Lys Leu Asn Glu Ser Ile Asn Lys Ala Met Ile Asn Ile
218              325             330             335
```

RAW SEQUENCE LISTING   DATE: 05/29/2002
PATENT APPLICATION: ·US/09/548,409B   TIME: 16:29:36

Input Set : A:\17282CIPSEQLIST.TXT
Output Set: N:\CRF3\05292002\I548409B.raw

```
219  Asn Lys Phe Leu Asn Gln Cys Ser Val Ser Tyr Leu Met Asn Ser Met
220              340                 345                 350
221  Ile Pro Tyr Gly Val Lys Arg Leu Glu Asp Phe Asp Ala Ser Leu Lys
222              355                 360                 365
223  Asp Ala Leu Leu Lys Tyr Ile Tyr Asp Asn Arg Gly Thr Leu Ile Gly
224          370                 375                 380
225  Gln Val Asp Arg Leu Lys Asp Lys Val Asn Asn Thr Leu Ser Thr Asp
226  385                 390                 395                 400
227  Ile Pro Phe Gln Leu Ser Lys Tyr Val Asp Asn Gln Arg Leu Leu Ser
228              405                 410                 415
229  Thr Phe Thr Glu Tyr Ile Lys
230              420
232  <210> SEQ ID NO: 9
233  <211> LENGTH: 382
234  <212> TYPE: PRT
235  <213> ORGANISM: Clostridium botulinum
237  <400> SEQUENCE: 9
238  Gln Leu Phe Asn Leu Glu Ser Ser Lys Ile Glu Val Ile Leu Lys Asn
239  1               5                  10                  15
240  Ala Ile Val Tyr Asn Ser Met Tyr Glu Asn Phè Ser Thr Ser Phe Trp
241              20                  25                  30
242  Ile Arg Ile Pro Lys Tyr Phe Asn Ser Ile Ser Leu Asn Asn Glu Tyr
243          35                  40                  45
244  Thr Ile Ile Asn Cys Met Glu Asn Asn Ser Gly Trp Lys Val Ser Leu
245      50                  55                  60
246  Asn Tyr Gly Glu Ile Ile Trp Thr Leu Gln Asp Thr Gln Glu Ile Lys
247  65                  70                  75                  80
248  Gln Arg Val Val Phe Lys Tyr Ser Gln Met Ile Asn Ile Ser Asp Tyr
249              85                  90                  95
250  Ile Asn Arg Trp Ile Phe Val Thr Ile Thr Asn Asn Arg Leu Asn Asn
251              100                 105                 110
252  Ser Lys Ile Tyr Ile Asn Gly Arg Leu Ile Asp Gln Lys Pro Ile Ser
253          115                 120                 125
254  Asn Leu Gly Asn Ile His Ala Ser Asn Asn Ile Met Phe Lys Leu Asp
255      130                 135                 140
256  Gly Cys Arg Asp Thr His Arg Tyr Ile Trp Ile Lys Tyr Phe Asn Leu
257  145                 150                 155                 160
258  Phe Asp Lys Glu Leu Asn Glu Lys Glu Ile Lys Asp Leu Tyr Asp Asn
259              165                 170                 175
260  Gln Ser Asn Ser Gly Ile Leu Lys Asp Phe Trp Gly Asp Tyr Leu Gln
261          180                 185                 190
262  Tyr Asp Lys Pro Tyr Tyr Met Leu Asn Leu Tyr Asp Pro Asn Lys Tyr
263          195                 200                 205
264  Val Asp Val Asn Asn Val Gly Ile Arg Gly Tyr Met Tyr Leu Lys Gly
265      210                 215                 220
266  Pro Arg Gly Ser Val Met Thr Thr Asn Ile Tyr Leu Asn Ser Ser Leu
267  225             230                 235                 240
268  Tyr Arg Gly Thr Lys Phe Ile Ile Lys Lys Tyr Ala Ser Gly Asn Lys
269              245                 250                 255
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/29/2002
PATENT APPLICATION: `US/09/548,409B`   TIME: 16:29:37

Input Set : `A:\17282CIPSEQLIST.TXT`
Output Set: `N:\CRF3\05292002\I548409B.raw`

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:12; Xaa Pos. 3,4